B. Witherspoon

RE-RUN

1600

RAW SEQUENCE LISTING   DATE: 01/28/2003
PATENT APPLICATION: US/09/676,475A   TIME: 11:18:52

Input Set : A:\LJ4377.app
Output Set: N:\CRF4\01282003\I676475A.raw

~ <110> APPLICANT: Ruoslahti, Erkki
  ~   Pasqualini, Renata
  ~   Rajotte, Daniel
  7 <120> TITLE OF INVENTION: Methods of Identifying Lung Homing Molecules Using
  ~   Membrane Dipeptidase
 1~ <130> FILE REFERENCE: P-LA 4377
C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/676,475A
C--> 13 <141> CURRENT FILING DATE: 1998-03-13
 1~ <150> PRIOR APPLICATION NUMBER: 09/042,107
 1~ <151> PRIOR FILING DATE: 1998-03-13
 1~ <160> NUMBER OF SEQ ID NOS: 45
 2~ <170> SOFTWARE: PatentIn Ver. 2.0
 2~ <210> SEQ ID NO: 1
 2~ <211> LENGTH: 13
 2~ <212> TYPE: PRT
 2~ <213> ORGANISM: Artificial Sequence
 2~ <220> FEATURE:
 2~ <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 2~ <400> SEQUENCE: 1
 2~ Cys Gly Phe Glu Cys Val Arg Gln Cys Pro Glu Arg Cys
 3~ 1   5   10
 4~ <210> SEQ ID NO: 2
 4~ <211> LENGTH: 8
 4~ <212> TYPE: PRT
 4~ <213> ORGANISM: Artificial Sequence
 4~ <220> FEATURE:
 41 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 4~ <400> SEQUENCE: 2
 4~ Cys Gly Phe Glu Leu Glu Thr Cys
 4~ 1   5
 4~ <210> SEQ ID NO: 3
 4~ <211> LENGTH: 13
 ~~ <212> TYPE: PRT
 ~~ <213> ORGANISM: Artificial Sequence
 ~~ <220> FEATURE:
 ~~ <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 ~~ <400> SEQUENCE: 3
 ~~ Cys Val Ala Leu Cys Arg Glu Ala Cys Gly Glu Gly Cys
 ~~ 1   5   10
 ~~ <210> SEQ ID NO: 4
 ~~ <211> LENGTH: 9
 ~~ <212> TYPE: PRT
 64 <213> ORGANISM: Artificial Sequence

RAW SEQUENCE LISTING   DATE: 01/28/2003
PATENT APPLICATION: US/09/676,475A   TIME: 11:18:52

Input Set : A:\LJ4377.app
Output Set : N:\CRF4\01282003\I676475A.raw

66 <220> FEATURE:
67 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
68 <400> SEQUENCE: 4
69 Ser Trp Cys Glu Pro Gly Trp Cys Arg
70 1   5
71
74 <210> SEQ ID NO: 5
75 <211> LENGTH: 9
76 <212> TYPE: PRT
77 <213> ORGANISM: Artificial Sequence
78 <220> FEATURE:
80 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
82 <400> SEQUENCE: 5
83 Cys Ser Cys Pro Arg Asp Val Cys Cys
84 1   5
87 <210> SEQ ID NO: 6
88 <211> LENGTH: 9
89 <212> TYPE: PRT
90 <213> ORGANISM: Artificial Sequence
91 <220> FEATURE:
93 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
95 <400> SEQUENCE: 6
96 Cys Arg Asp Val Val Ser Val Ile Cys
97 1   5
100 <210> SEQ ID NO: 7
101 <211> LENGTH: 7
102 <212> TYPE: PRT
103 <213> ORGANISM: Artificial Sequence
105 <220> FEATURE:
106 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
108 <400> SEQUENCE: 7
109 Leu Ser Pro Pro Tyr Met Trp
110 1   5
113 <210> SEQ ID NO: 8
114 <211> LENGTH: 8
115 <212> TYPE: PRT
116 <213> ORGANISM: Artificial Sequence
118 <220> FEATURE:
119 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
121 <400> SEQUENCE: 8
122 Gly Ile Gly Glu Val Glu Val Cys
123 1   5
126 <210> SEQ ID NO: 9
127 <211> LENGTH: 7
128 <212> TYPE: PRT
129 <213> ORGANISM: Artificial Sequence
131 <220> FEATURE:
132 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
134 <400> SEQUENCE: 9
135 Tyr Ser Gly Lys Trp Gly Lys

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/676,475A

DATE: 01/28/2003
TIME: 11:18:52

Input Set : **A:\LJ4377.app**
Output Set: **N:\CRF4\01282003\I676475A.raw**

```
126    1                5
139 <210> SEQ ID NO: 10
140 <211> LENGTH: 7
141 <212> TYPE: PRT
142 <213> ORGANISM: Artificial Sequence
144 <220> FEATURE:
145 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
147 <400> SEQUENCE: 10
148 Glu Val Arg Ser Arg Leu Ser
149   1                5
152 <210> SEQ ID NO: 11
153 <211> LENGTH: 7
154 <212> TYPE: PRT
155 <213> ORGANISM: Artificial Sequence
157 <220> FEATURE:
159 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
160 <400> SEQUENCE: 11
161 Arg Val Gly Leu Val Ala Arg
162   1                5
165 <210> SEQ ID NO: 12
166 <211> LENGTH: 7
167 <212> TYPE: PRT
168 <213> ORGANISM: Artificial Sequence
170 <220> FEATURE:
171 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
173 <400> SEQUENCE: 12
174 Val Lys Ser Val Cys Arg Thr
175   1                5
178 <210> SEQ ID NO: 13
179 <211> LENGTH: 9
180 <212> TYPE: PRT
181 <213> ORGANISM: Artificial Sequence
183 <220> FEATURE:
184 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
186 <400> SEQUENCE: 13
187 Cys Leu Ala Lys Glu Asn Val Val Cys
188   1                5
191 <210> SEQ ID NO: 14
192 <211> LENGTH: 8
193 <212> TYPE: PRT
194 <213> ORGANISM: Artificial Sequence
196 <220> FEATURE:
197 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
199 <400> SEQUENCE: 14
200 Cys Gly Glu Phe Lys Val Gly Cys
201   1                5
204 <210> SEQ ID NO: 15
205 <211> LENGTH: 6
206 <212> TYPE: PRT
```

RAW SEQUENCE LISTING   DATE: 01/28/2003
PATENT APPLICATION: US/09/676,475A   TIME: 11:18:52

Input Set : A:\LJ4377.app
Output Set: N:\CRF4\01282003\I676475A.raw

```
207 <213> ORGANISM: Artificial Sequence
209 <220> FEATURE:
210 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
211 <400> SEQUENCE: 15
213 Cys Thr Leu Arg Asp Arg Asn Cys
214   1              5
217 <210> SEQ ID NO: 16
    <211> LENGTH: 8
    <212> TYPE: PRT
    <213> ORGANISM: Artificial Sequence
    <220> FEATURE:
    <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
    <400> SEQUENCE: 16
    Cys Ile Gly Glu Val Glu Val Cys
    1              5
    <210> SEQ ID NO: 17
    <211> LENGTH: 23
    <212> TYPE: PRT
    <213> ORGANISM: Artificial Sequence
    <220> FEATURE:
    <221> NAME/KEY: SITE
    <222> LOCATION: (1)..(10)
    <223> OTHER INFORMATION: Xaa may be present or absent
    <220> FEATURE:
    <221> NAME/KEY: SITE
    <222> LOCATION: (14)..(23)
    <223> OTHER INFORMATION: Xaa may be present or absent.
    <220> FEATURE:
    <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
    <400> SEQUENCE: 17
```

W--> 249 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Gly Phe Glu Xaa Xaa Xaa

```
250   1              5                   10                  15
```

W--> 252 Xaa Xaa Xaa Xaa Xaa Xaa Xaa

```
253              20
256 <210> SEQ ID NO: 18
    <211> LENGTH: 7
    <212> TYPE: PRT
    <213> ORGANISM: Artificial Sequence
    <220> FEATURE:
    <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
    <400> SEQUENCE: 18
    Leu Cys Thr Ala Met Thr Glu
    1              5
    <210> SEQ ID NO: 19
    <211> LENGTH: 3
    <212> TYPE: PRT
    <213> ORGANISM: Artificial Sequence
    <220> FEATURE:
    <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
```

RAW SEQUENCE LISTING   DATE: 01/28/2003
PATENT APPLICATION: US/09/676,475A   TIME: 11:18:52

Input Set : **A:\LJ4377.app**
Output Set: **N:\CRF4\01282003\I676475A.raw**

```
277 <400> SEQUENCE: 19
278 Gly Ile Ser Ala Leu Val Leu Ser
279    1                5
281 <210> SEQ ID NO: 20
282 <211> LENGTH: 8
283 <212> TYPE: PRT
285 <213> ORGANISM: Artificial Sequence
287 <220> FEATURE:
288 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
290 <400> SEQUENCE: 20
291 Cys Gly Lys Arg Tyr Arg Asn Cys
294    1                5
295 <210> SEQ ID NO: 21
296 <211> LENGTH: 7
297 <212> TYPE: PRT
299 <213> ORGANISM: Artificial Sequence
300 <220> FEATURE:
301 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
303 <400> SEQUENCE: 21
304 Ser Met Ser Ile Ala Arg Leu
305    1                5
308 <210> SEQ ID NO: 22
309 <211> LENGTH: 7
310 <212> TYPE: PRT
311 <213> ORGANISM: Artificial Sequence
313 <220> FEATURE:
314 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
316 <400> SEQUENCE: 22
317 Val Ser Phe Leu Glu Tyr Arg
318    1                5
321 <210> SEQ ID NO: 23
322 <211> LENGTH: 9
323 <212> TYPE: PRT
324 <213> ORGANISM: Artificial Sequence
326 <220> FEATURE:
327 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
329 <220> FEATURE:
330 <221> NAME/KEY: UNSURE
331 <222> LOCATION: (1)..(2)
332 <223> OTHER INFORMATION: Unsure
334 <220> FEATURE:
335 <221> NAME/KEY: UNSURE
336 <222> LOCATION: (4)..(7)
337 <223> OTHER INFORMATION: Unsure
339 <220> FEATURE:
340 <221> NAME/KEY: UNSURE
341 <222> LOCATION: (9)
342 <223> OTHER INFORMATION: Unsure
344 <400> SEQUENCE: 23
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 01/28/2003
PATENT APPLICATION: US/09/676,475A   TIME: 11:18:53

Input Set : **A:\LJ4377.app**
Output Set: **N:\CRF4\01282003\I676475A.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

```
Seq#:17; Xaa Pos. 1,2,3,4,5,6,7,8,9,10,14,15,16,17,18,19,20,21,22,23
Seq#:23; Xaa Pos. 1,2,4,5,6,7,8
Seq#:34; Xaa Pos. 2,3,4,5,6,7,8
Seq#:35; Xaa Pos. 2,3,4,6,7,8,10,11,1.
Seq#:36; Xaa Pos. 2,3,4,5,6,7
Seq#:37; Xaa Pos. 1,2,3,4,5,6,7
Seq#:40; Xaa Pos. 2,3,4,5,6,7,8,9,10,11
Seq#:31; N Pos. 4,5,6,7,8,10,11,15,14,16,17,18,20
Seq#:207; Xaa Pos. 1,2,3
Seq#:46; Xaa Pos. 2,3
Seq#:306; Xaa Pos. 2
Seq#:407; Xaa Pos. 6
Seq#:31 ; Xaa Pos. 3
Seq#:404; Xaa Pos. 1
Seq#:481; Xaa Pos. 1,2,3,4,5,6,7,8,9,10,14,15,16,17,18,19,20,21,22,23
Seq#:482; Xaa Pos. 1,2,3,4,5,6,7,8,9,10,15,16,17,18,19,20,21,22,23,24
Seq#:483; Xaa Pos. 6,7,8,9,10,11,12,13,14,16
Seq#:484; Xaa Pos. 1,2,3,4,5,6,7,8,9,10,14,15,16,17,18,19,20,21,22,23
Seq#:480; Xaa Pos. 1,2,3,4,5,6,7,8,9,10,14,15,16,17,18,19,20,21,22,23
```

Invalid Line Length:
The rules require that a line not exceed 72 characters in length. This includes spaces.

```
Seq#:1; Line(s) 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23
Seq#:1; Line(s) 24,25,26,27,28,29,30,31,32,33,34,35
Seq#:2; Line(s) 36,37,38,39,40,41,42,43,44,45,46,47,48
Seq#:3; Line(s) 49,50,51,52,53,54,55,56,57,58,59,60,61
Seq#:4; Line(s) 62,63,64,65,66,67,68,69,70,71,72,73,74
Seq#:5; Line(s) 75,76,77,78,79,80,81,82,83,84,85,86,87
Seq#:6; Line(s) 88,89,90,91,92,93,94,95,96,97,98,99,100
Seq#:7; Line(s) 101,102,103,104,105,106,107,108,109,110,111,112,113
Seq#:8; Line(s) 114,115,116,117,118,119,1.0,1.1,1.2,123,124,125,126
Seq#:9; Line(s) 127,128,129,130,131,132,133,134,135,136,137,138,139
Seq#:10; Line(s) 140,141,142,143,144,145,146,147,148,149,150,151,152
Seq#:11; Line(s) 153,154,155,156,157,158,159,160,161,162,163,164,165
Seq#:12; Line(s) 166,167,168,169,170,171,172,173,174,175,176,177,178
Seq#:13; Line(s) 179,180,181,182,183,184,185,186,187,188,189,190,191
Seq#:14; Line(s) 192,193,194,195,196,197,198,199,200,201,202,203,204
Seq#:15; Line(s) 205,206,207,208,209,210,211,212,213,214,215,216,217
Seq#:16; Line(s) 218,219,220,221,222,223,224,225,226,227,228,229,230
Seq#:17; Line(s) 231,232,233,234,235,236,237,238,239,240,241,242,243,244
Seq#:17; Line(s) 245,246,247,248,249,250,251,252,253,254,255,256
Seq#:18; Line(s) 257,258,259,260,261,262,263,264,265,266,267,268,269
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 01/28/2003
PATENT APPLICATION: US/09/676,475A   TIME: 11:18:53

Input Set : A:\LJ4377.app
Output Set : N:\CRF4\01282003\I676475A.raw

Seq#:18; Line(s) 270,271,272,273,274,275,276,277,278,279,280,281,282
Seq#:19; Line(s) 283,284,285,286,287,288,289,290,291,292,293,294,295
Seq#:20; Line(s) 296,297,298,299,300,301,302,303,304,305,306,307,308
Seq#:21; Line(s) 309,310,311,312,313,314,315,316,317,318,319,320,321
Seq#:22; Line(s) 322,323,324,325,326,327,328,329,330,331,332,333,334,335
Seq#:23; Line(s) 336,337,338,339,340,341,342,343,344,345,346,347,348,349
Seq#:24; Line(s) 350,351,352,353,354,355,356,357,358,359,360,361,362,363
Seq#:24; Line(s) 364,365,366,367
Seq#:25; Line(s) 368,369,370,371,372,373,374,375,376,377,378,379,380,381
Seq#:26; Line(s) 382,383,384,385,386,387,388,389,390,391,392,393,394,395
Seq#:26; Line(s) 396,397,398,399,400,401,402,403,404,405,406,407,408,409
Seq#:26; Line(s) 410,411,412,413
Seq#:27; Line(s) 414,415,416,417,418,419,420,421,422,423,424,425,426
Seq#:28; Line(s) 427,428,429,430,431,432,433,434,435,436,437,438,439
Seq#:29; Line(s) 440,441,442,443,444,445,446,447,448,449,450,451,452,453
Seq#:29; Line(s) 454,455,456,457
Seq#:30; Line(s) 458,459,460,461,462,463,464,465,466,467,468,469,470,471
Seq#:30; Line(s) 472,473,474
Seq#:31; Line(s) 475,476,477,478,479,480,481,482,483,484,485,486,487,488
Seq#:31; Line(s) 489,490,491
Seq#:32; Line(s) 492,493,494,495,496,497,498,499,500,501,502,503,504
Seq#:33; Line(s) 505,506,507,508,509,510,511,512,513,514,515,516,517
Seq#:34; Line(s) 518,519,520,521,522,523,524,525,526,527,528,529,530
Seq#:35; Line(s) 531,532,533,534,535,536,537,538,539,540,541,542,543
Seq#:36; Line(s) 544,545,546,547,548,549,550,551,552,553,554,555,556
Seq#:37; Line(s) 557,558,559,560,561,562,563,564,565,566,567,568,569
Seq#:38; Line(s) 570,571,572,573,574,575,576,577,578,579,580,581,582
Seq#:39; Line(s) 583,584,585,586,587,588,589,590,591,592,593,594,595
Seq#:40; Line(s) 596,597,598,599,600,601,602,603,604,605,606,607,608
Seq#:41; Line(s) 609,610,611,612,613,614,615,616,617,618,619,620,621
Seq#:42; Line(s) 622,623,624,625,626,627,628,629,630,631,632,633,634
Seq#:43; Line(s) 635,636,637,638,639,640,641,642,643,644,645,646,647
Seq#:44; Line(s) 648,649,650,651,652,653,654,655,656,657,658,659,660
Seq#:45; Line(s) 661,662,663,664,665,666,667,668,669,670,671,672,673
Seq#:46; Line(s) 674,675,676,677,678,679,680,681,682,683,684,685,686
Seq#:47; Line(s) 687,688,689,690,691,692,693,694,695,696,697,698,699
Seq#:48; Line(s) 700,701,702,703,704,705,706,707,708,709,710,711,712
Seq#:49; Line(s) 713,714,715,716,717,718,719,720,721,722,723,724,725
Seq#:50; Line(s) 726,727,728,729,730,731,732,733,734,735,736,737,738
Seq#:51; Line(s) 739,740,741,742,743,744,745,746,747,748,749,750,751
Seq#:52; Line(s) 752,753,754,755,756,757,758,759,760,761,762,763,764
Seq#:53; Line(s) 765,766,767,768,769,770,771,772,773,774,775,776,777
Seq#:54; Line(s) 778,779,780,781,782,783,784,785,786,787,788,789,790
Seq#:55; Line(s) 791,792,793,794,795,796,797,798,799,800,801,802,803
Seq#:56; Line(s) 804,805,806,807,808,809,810,811,812,813,814,815,816
Seq#:57; Line(s) 817,818,819,820,821,822,823,824,825,826,827,828,829
Seq#:58; Line(s) 830,831,832,833,834,835,836,837,838,839,840,841,842
Seq#:59; Line(s) 843,844,845,846,847,848,849,850,851,852,853,854,855
Seq#:60; Line(s) 856,857,858,859,860,861,862,863,864,865,866,867,868

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 01/28/2003
PATENT APPLICATION: **US/09/676,475A**   TIME: 1:18:53

Input Set : **A:\LJ4377.app**
Output Set: **N:\CRF4\01282003\I676475A.raw**

```
Seq#:61; Line(s) 869,870,871,872,873,874,875,876,877,878,879,880,881
Seq#:62; Line(s) 882,883,884,885,886,887,888,889,890,891,892,893,894
Seq#:63; Line(s) 895,896,897,898,899,900,901,902,903,904,905,906,907
Seq#:64; Line(s) 908,909,910,911,912,913,914,915,916,917,918,919,920
Seq#:65; Line(s) 921,922,923,924,925,926,927,928,929,930,931,932,933
Seq#:66; Line(s) 934,935,936,937,938,939,940,941,942,943,944,945,946
Seq#:67; Line(s) 947,948,949,950,951,952,953,954,955,956,957,958,959
Seq#:68; Line(s) 960,961,962,963,964,965,966,967,968,969,970,971,972
Seq#:69; Line(s) 973,974,975,976,977,978,979,980,981,982,983,984,985
Seq#:70; Line(s) 986,987,988,989,990,991,992,993,994,995,996,997,998
Seq#:71; Line(s) 999,1000,1001,1002,1003,1004,1005,1006,1007,1008,1009,1010
Seq#:71; Line(s) 1011
Seq#:72; Line(s) 1012,1013,1014,1015,1016,1017,1018,1019,1020,1021,1022
Seq#:72; Line(s) 1023,1024
Seq#:73; Line(s) 1025,1026,1027,1028,1029,1030,1031,1032,1033,1034,1035
Seq#:73; Line(s) 1036,1037
Seq#:74; Line(s) 1038,1039,1040,1041,1042,1043,1044,1045,1046,1047,1048
Seq#:74; Line(s) 1049,1050
Seq#:75; Line(s) 1051,1052,1053,1054,1055,1056,1057,1058,1059,1060,1061
Seq#:75; Line(s) 1062,1063
Seq#:76; Line(s) 1064,1065,1066,1067,1068,1069,1070,1071,1072,1073,1074
Seq#:76; Line(s) 1075,1076
Seq#:77; Line(s) 1077,1078,1079,1080,1081,1082,1083,1084,1085,1086,1087
Seq#:77; Line(s) 1088,1089
Seq#:78; Line(s) 1090,1091,1092,1093,1094,1095,1096,1097,1098,1099,1100
Seq#:78; Line(s) 1101,1102
Seq#:79; Line(s) 1103,1104,1105,1106,1107,1108,1109,1110,1111,1112,1113
Seq#:79; Line(s) 1114,1115
Seq#:80; Line(s) 1116,1117,1118,1119,1120,1121,1122,1123,1124,1125,1126
Seq#:80; Line(s) 1127,1128
Seq#:81; Line(s) 1129,1130,1131,1132,1133,1134,1135,1136,1137,1138,1139
Seq#:81; Line(s) 1140,1141
Seq#:82; Line(s) 1142,1143,1144,1145,1146,1147,1148,1149,1150,1151,1152
Seq#:82; Line(s) 1153,1154
Seq#:83; Line(s) 1155,1156,1157,1158,1159,1160,1161,1162,1163,1164,1165
Seq#:83; Line(s) 1166,1167
Seq#:84; Line(s) 1168,1169,1170,1171,1172,1173,1174,1175,1176,1177,1178
Seq#:84; Line(s) 1179,1180
Seq#:85; Line(s) 1181,1182,1183,1184,1185,1186,1187,1188,1189,1190,1191
Seq#:85; Line(s) 1192,1193
Seq#:86; Line(s) 1194,1195,1196,1197,1198,1199,1200,1201,1202,1203,1204
Seq#:86; Line(s) 1205,1206
Seq#:87; Line(s) 1207,1208,1209,1210,1211,1212,1213,1214,1215,1216,1217
Seq#:87; Line(s) 1218,1219
Seq#:88; Line(s) 1220,1221,1222,1223,1224,1225,1226,1227,1228,1229,1230
Seq#:88; Line(s) 1231,1232
Seq#:89; Line(s) 1233,1234,1235,1236,1237,1238,1239,1240,1241,1242,1243
Seq#:89; Line(s) 1244,1245
Seq#:90; Line(s) 1246,1247,1248,1249,1250,1251,1252,1253,1254,1255,1256
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 01/28/2003
PATENT APPLICATION: US/09/676,475A   TIME: 11:18:53

Input Set : A:\LJ4377.app
Output Set : N:\CRF4\01282003\I676475A.raw

```
Seq#:90; Line(s) 1257,1258
Seq#:91; Line(s) 1259,1260,1261,1262,1263,1264,1265,1266,1267,1268,1269
Seq#:91; Line(s) 1270,1271
Seq#:92; Line(s) 1272,1273,1274,1275,1276,1277,1278,1279,1280,1281,1282
Seq#:92; Line(s) 1283,1284
Seq#:93; Line(s) 1285,1286,1287,1288,1289,1290,1291,1292,1293,1294,1295
Seq#:93; Line(s) 1296,1297
Seq#:94; Line(s) 1298,1299,1300,1301,1302,1303,1304,1305,1306,1307,1308
Seq#:94; Line(s) 1309,1310
Seq#:95; Line(s) 1311,1312,1313,1314,1315,1316,1317,1318,1319,1320,1321
Seq#:95; Line(s) 1322,1323
Seq#:96; Line(s) 1324,1325,1326,1327,1328,1329,1330,1331,1332,1333,1334
Seq#:96; Line(s) 1335,1336
Seq#:97; Line(s) 1337,1338,1339,1340,1341,1342,1343,1344,1345,1346,1347
Seq#:97; Line(s) 1348,1349
Seq#:98; Line(s) 1350,1351,1352,1353,1354,1355,1356,1357,1358,1359,1360
Seq#:98; Line(s) 1361,1362
Seq#:99; Line(s) 1363,1364,1365,1366,1367,1368,1369,1370,1371,1372,1373
Seq#:99; Line(s) 1374,1375
Seq#:100; Line(s) 1376,1377,1378,1379,1380,1381,1382,1383,1384,1385,1386
Seq#:100; Line(s) 1387,1388
Seq#:101; Line(s) 1389,1390,1391,1392,1393,1394,1395,1396,1397,1398,1399
Seq#:101; Line(s) 1400,1401
Seq#:102; Line(s) 1402,1403,1404,1405,1406,1407,1408,1409,1410,1411,1412
Seq#:102; Line(s) 1413,1414
Seq#:103; Line(s) 1415,1416,1417,1418,1419,1420,1421,1422,1423,1424,1425
Seq#:103; Line(s) 1426,1427
Seq#:104; Line(s) 1428,1429,1430,1431,1432,1433,1434,1435,1436,1437,1438
Seq#:104; Line(s) 1439,1440
Seq#:105; Line(s) 1441,1442,1443,1444,1445,1446,1447,1448,1449,1450,1451
Seq#:105; Line(s) 1452,1453
Seq#:106; Line(s) 1454,1455,1456,1457,1458,1459,1460,1461,1462,1463,1464
Seq#:106; Line(s) 1465,1466
Seq#:107; Line(s) 1467,1468,1469,1470,1471,1472,1473,1474,1475,1476,1477
Seq#:107; Line(s) 1478,1479
Seq#:108; Line(s) 1480,1481,1482,1483,1484,1485,1486,1487,1488,1489,1490
Seq#:108; Line(s) 1491,1492
Seq#:109; Line(s) 1493,1494,1495,1496,1497,1498,1499,1500,1501,1502,1503
Seq#:109; Line(s) 1504,1505
Seq#:110; Line(s) 1506,1507,1508,1509,1510,1511,1512,1513,1514,1515,1516
Seq#:110; Line(s) 1517,1518
Seq#:111; Line(s) 1519,1520,1521,1522,1523,1524,1525,1526,1527,1528,1529
Seq#:111; Line(s) 1530,1531
Seq#:112; Line(s) 1532,1533,1534,1535,1536,1537,1538,1539,1540,1541,1542
Seq#:112; Line(s) 1543,1544
Seq#:113; Line(s) 1545,1546,1547,1548,1549,1550,1551,1552,1553,1554,1555
Seq#:113; Line(s) 1556,1557
Seq#:114; Line(s) 1558,1559,1560,1561,1562,1563,1564,1565,1566,1567,1568
Seq#:114; Line(s) 1569,1570
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 01/28/2003
PATENT APPLICATION: US/09/676,475A   TIME: 11:18:53

Input Set : A:\LJ4377.app
Output Set : N:\CRF4\01282003\I676475A.raw

```
Seq#:115; Line(s) 1571,1572,1573,1574,1575,1576,1577,1578,1579,1580,1581
Seq#:115; Line(s) 1582,1583
Seq#:116; Line(s) 1584,1585,1586,1587,1588,1589,1590,1591,1592,1593,1594
Seq#:116; Line(s) 1595,1596
Seq#:117; Line(s) 1597,1598,1599,1600,1601,1602,1603,1604,1605,1606,1607
Seq#:117; Line(s) 1608,1609
Seq#:118; Line(s) 1610,1611,1612,1613,1614,1615,1616,1617,1618,1619,1620
Seq#:118; Line(s) 1621,1622
Seq#:119; Line(s) 1623,1624,1625,1626,1627,1628,1629,1630,1631,1632,1633
Seq#:119; Line(s) 1634,1635
Seq#:120; Line(s) 1636,1637,1638,1639,1640,1641,1642,1643,1644,1645,1646
Seq#:120; Line(s) 1647,1648
Seq#:121; Line(s) 1649,1650,1651,1652,1653,1654,1655,1656,1657,1658,1659
Seq#:121; Line(s) 1660,1661
Seq#:122; Line(s) 1662,1663,1664,1665,1666,1667,1668,1669,1670,1671,1672
Seq#:122; Line(s) 1673,1674
Seq#:123; Line(s) 1675,1676,1677,1678,1679,1680,1681,1682,1683,1684,1685
Seq#:123; Line(s) 1686,1687
Seq#:124; Line(s) 1688,1689,1690,1691,1692,1693,1694,1695,1696,1697,1698
Seq#:124; Line(s) 1699,1700
Seq#:125; Line(s) 1701,1702,1703,1704,1705,1706,1707,1708,1709,1710,1711
Seq#:125; Line(s) 1712,1713
Seq#:126; Line(s) 1714,1715,1716,1717,1718,1719,1720,1721,1722,1723,1724
Seq#:126; Line(s) 1725,1726
Seq#:127; Line(s) 1727,1728,1729,1730,1731,1732,1733,1734,1735,1736,1737
Seq#:127; Line(s) 1738,1739
Seq#:128; Line(s) 1740,1741,1742,1743,1744,1745,1746,1747,1748,1749,1750
Seq#:128; Line(s) 1751,1752
Seq#:129; Line(s) 1753,1754,1755,1756,1757,1758,1759,1760,1761,1762,1763
Seq#:129; Line(s) 1764,1765
Seq#:130; Line(s) 1766,1767,1768,1769,1770,1771,1772,1773,1774,1775,1776
Seq#:130; Line(s) 1777,1778
Seq#:131; Line(s) 1779,1780,1781,1782,1783,1784,1785,1786,1787,1788,1789
Seq#:131; Line(s) 1790,1791
Seq#:132; Line(s) 1792,1793,1794,1795,1796,1797,1798,1799,1800,1801,1802
Seq#:132; Line(s) 1803,1804
Seq#:133; Line(s) 1805,1806,1807,1808,1809,1810,1811,1812,1813,1814,1815
Seq#:133; Line(s) 1816,1817
Seq#:134; Line(s) 1818,1819,1820,1821,1822,1823,1824,1825,1826,1827,1828
Seq#:134; Line(s) 1829,1830
Seq#:135; Line(s) 1831,1832,1833,1834,1835,1836,1837,1838,1839,1840,1841
Seq#:135; Line(s) 1842,1843
Seq#:136; Line(s) 1844,1845,1846,1847,1848,1849,1850,1851,1852,1853,1854
Seq#:136; Line(s) 1855,1856
Seq#:137; Line(s) 1857,1858,1859,1860,1861,1862,1863,1864,1865,1866,1867
Seq#:137; Line(s) 1868,1869
Seq#:138; Line(s) 1870,1871,1872,1873,1874,1875,1876,1877,1878,1879,1880
Seq#:138; Line(s) 1881,1882
Seq#:139; Line(s) 1883,1884,1885,1886,1887,1888,1889,1890,1891,1892,1893
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 01/28/2003
PATENT APPLICATION: US/09/676,475A   TIME: 11:18:53

Input Set : **A:\LJ4377.app**
Output Set: **N:\CRF4\01282003\I676475A.raw**

```
Seq#:139; Line(s) 1894,1895
Seq#:140; Line(s) 1896,1897,1898,1899,1900,1901,1902,1903,1904,1905,1906
Seq#:140; Line(s) 1907,1908
Seq#:141; Line(s) 1909,1910,1911,1912,1913,1914,1915,1916,1917,1918,1919
Seq#:141; Line(s) 1920,1921
Seq#:142; Line(s) 1922,1923,1924,1925,1926,1927,1928,1929,1930,1931,1932
Seq#:142; Line(s) 1933,1934
Seq#:143; Line(s) 1935,1936,1937,1938,1939,1940,1941,1942,1943,1944,1945
Seq#:143; Line(s) 1946,1947
Seq#:144; Line(s) 1948,1949,1950,1951,1952,1953,1954,1955,1956,1957,1958
Seq#:144; Line(s) 1959,1960
Seq#:145; Line(s) 1961,1962,1963,1964,1965,1966,1967,1968,1969,1970,1971
Seq#:145; Line(s) 1972,1973
Seq#:146; Line(s) 1974,1975,1976,1977,1978,1979,1980,1981,1982,1983,1984
Seq#:146; Line(s) 1985,1986
Seq#:147; Line(s) 1987,1988,1989,1990,1991,1992,1993,1994,1995,1996,1997
Seq#:147; Line(s) 1998,1999
Seq#:148; Line(s) 2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010
Seq#:148; Line(s) 2011,2012
Seq#:149; Line(s) 2013,2014,2015,2016,2017,2018,2019,2020,2021,2022,2023
Seq#:149; Line(s) 2024,2025
Seq#:150; Line(s) 2026,2027,2028,2029,2030,2031,2032,2033,2034,2035,2036
Seq#:150; Line(s) 2037,2038
Seq#:151; Line(s) 2039,2040,2041,2042,2043,2044,2045,2046,2047,2048,2049
Seq#:151; Line(s) 2050,2051
Seq#:152; Line(s) 2052,2053,2054,2055,2056,2057,2058,2059,2060,2061,2062
Seq#:152; Line(s) 2063,2064
Seq#:153; Line(s) 2065,2066,2067,2068,2069,2070,2071,2072,2073,2074,2075
Seq#:153; Line(s) 2076,2077
Seq#:154; Line(s) 2078,2079,2080,2081,2082,2083,2084,2085,2086,2087,2088
Seq#:154; Line(s) 2089,2090
Seq#:155; Line(s) 2091,2092,2093,2094,2095,2096,2097,2098,2099,2100,2101
Seq#:155; Line(s) 2102,2103
Seq#:156; Line(s) 2104,2105,2106,2107,2108,2109,2110,2111,2112,2113,2114
Seq#:156; Line(s) 2115,2116
Seq#:157; Line(s) 2117,2118,2119,2120,2121,2122,2123,2124,2125,2126,2127
Seq#:157; Line(s) 2128,2129
Seq#:158; Line(s) 2130,2131,2132,2133,2134,2135,2136,2137,2138,2139,2140
Seq#:158; Line(s) 2141,2142
Seq#:159; Line(s) 2143,2144,2145,2146,2147,2148,2149,2150,2151,2152,2153
Seq#:159; Line(s) 2154,2155
Seq#:160; Line(s) 2156,2157,2158,2159,2160,2161,2162,2163,2164,2165,2166
Seq#:160; Line(s) 2167,2168
Seq#:161; Line(s) 2169,2170,2171,2172,2173,2174,2175,2176,2177,2178,2179
Seq#:161; Line(s) 2180,2181
Seq#:162; Line(s) 2182,2183,2184,2185,2186,2187,2188,2189,2190,2191,2192
Seq#:162; Line(s) 2193,2194
Seq#:163; Line(s) 2195,2196,2197,2198,2199,2200,2201,2202,2203,2204,2205
Seq#:163; Line(s) 2206,2207
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 01/28/2003
PATENT APPLICATION: US/09/676,475A   TIME: 11:18:53

Input Set : A:\LJ4377.app
Output Set: N:\CRF4\01282003\I676475A.raw

```
Seq#:164; Line(s) 2207,2209,2210,2211,2212,2213,2214,2215,2216,2217,2218
Seq#:164; Line(s) 2219,2220
Seq#:165; Line(s) 2221,2222,2223,2224,2225,2226,2227,2228,2229,2230,2231
Seq#:165; Line(s) 2232,2233
Seq#:166; Line(s) 2234,2235,2236,2237,2238,2239,2240,2241,2242,2243,2244
Seq#:166; Line(s) 2245,2246
Seq#:167; Line(s) 2247,2248,2249,2250,2251,2252,2253,2254,2255,2256,2257
Seq#:167; Line(s) 2258,2259
Seq#:168; Line(s) 2260,2261,2262,2263,2264,2265,2266,2267,2268,2269,2270
Seq#:168; Line(s) 2271,2272
Seq#:169; Line(s) 2273,2274,2275,2276,2277,2278,2279,2280,2281,2282,2283
Seq#:169; Line(s) 2284,2285
Seq#:170; Line(s) 2286,2287,2288,2289,2290,2291,2292,2293,2294,2295,2296
Seq#:170; Line(s) 2297,2298
Seq#:171; Line(s) 2299,2300,2301,2302,2303,2304,2305,2306,2307,2308,2309
Seq#:171; Line(s) 2310,2311
Seq#:172; Line(s) 2312,2313,2314,2315,2316,2317,2318,2319,2320,2321,2322
Seq#:172; Line(s) 2323,2324
Seq#:173; Line(s) 2325,2326,2327,2328,2329,2330,2331,2332,2333,2334,2335
Seq#:173; Line(s) 2336,2337
Seq#:174; Line(s) 2338,2339,2340,2341,2342,2343,2344,2345,2346,2347,2348
Seq#:174; Line(s) 2349,2350
Seq#:175; Line(s) 2351,2352,2353,2354,2355,2356,2357,2358,2359,2360,2361
Seq#:175; Line(s) 2362,2363
Seq#:176; Line(s) 2364,2365,2366,2367,2368,2369,2370,2371,2372,2373,2374
Seq#:176; Line(s) 2375,2376
Seq#:177; Line(s) 2377,2378,2379,2380,2381,2382,2383,2384,2385,2386,2387
Seq#:177; Line(s) 2388,2389
Seq#:178; Line(s) 2390,2391,2392,2393,2394,2395,2396,2397,2398,2399,2400
Seq#:178; Line(s) 2401,2402
Seq#:179; Line(s) 2403,2404,2405,2406,2407,2408,2409,2410,2411,2412,2413
Seq#:179; Line(s) 2414,2415
Seq#:180; Line(s) 2416,2417,2418,2419,2420,2421,2422,2423,2424,2425,2426
Seq#:180; Line(s) 2427,2428
Seq#:181; Line(s) 2429,2430,2431,2432,2433,2434,2435,2436,2437,2438,2439
Seq#:181; Line(s) 2440,2441
Seq#:182; Line(s) 2442,2443,2444,2445,2446,2447,2448,2449,2450,2451,2452
Seq#:182; Line(s) 2453,2454
Seq#:183; Line(s) 2455,2456,2457,2458,2459,2460,2461,2462,2463,2464,2465
Seq#:183; Line(s) 2466,2467
Seq#:184; Line(s) 2468,2469,2470,2471,2472,2473,2474,2475,2476,2477,2478
Seq#:184; Line(s) 2479,2480
Seq#:185; Line(s) 2481,2482,2483,2484,2485,2486,2487,2488,2489,2490,2491
Seq#:185; Line(s) 2492,2493
Seq#:186; Line(s) 2494,2495,2496,2497,2498,2499,2500,2501,2502,2503,2504
Seq#:186; Line(s) 2505,2506
Seq#:187; Line(s) 2507,2508,2509,2510,2511,2512,2513,2514,2515,2516,2517
Seq#:187; Line(s) 2518,2519
Seq#:188; Line(s) 2520,2521,2522,2523,2524,2525,2526,2527,2528,2529,2530
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 01/28/2003
PATENT APPLICATION: US/09/676,475A   TIME: 11:18:53

Input Set : **A:\LJ4377.app**
Output Set: **N:\CRF4\01282003\I676475A.raw**

```
Seq#:189; Line(s) 2533,2532
Seq#:189; Line(s) 2034,2534,2535,2536,2537,2538,2539,2540,2541,2542,2542
Seq#:189; Line(s) 2544,2545
Seq#:190; Line(s) 2546,2547,2548,2549,2550,2551,2552,2553,2554,2555,2556
Seq#:190; Line(s) 2557,2558
Seq#:191; Line(s) 2562,2560,2561,2562,2563,2564,2565,2566,2567,2568,2569
Seq#:191; Line(s) 2570,2571
Seq#:192; Line(s) 2572,2573,2574,2575,2576,2577,2578,2579,2580,2581,2582
Seq#:192; Line(s) 2583,2584
Seq#:193; Line(s) 2585,2586,2587,2588,2589,2590,2591,2592,2593,2594,2595
Seq#:193; Line(s) 2596,2597
Seq#:194; Line(s) 2598,2599,2600,2601,2602,2603,2604,2605,2606,2607,2608
Seq#:194; Line(s) 2609,2610
Seq#:195; Line(s) 2611,2612,2613,2614,2615,2616,2617,2618,2619,2620,2621
Seq#:195; Line(s) 2622,2623
Seq#:196; Line(s) 2624,2625,2626,2627,2628,2629,2630,2631,2632,2633,2634
Seq#:196; Line(s) 2635,2636
Seq#:197; Line(s) 2637,2638,2639,2640,2641,2642,2643,2644,2645,2646,2647
Seq#:197; Line(s) 2648,2649
Seq#:198; Line(s) 2650,2651,2652,2653,2654,2655,2656,2657,2658,2659,2660
Seq#:198; Line(s) 2661,2662
Seq#:199; Line(s) 2663,2664,2665,2666,2667,2668,2669,2670,2671,2672,2673
Seq#:199; Line(s) 2674,2675
Seq#:200; Line(s) 2676,2677,2678,2679,2680,2681,2682,2683,2684,2685,2686
Seq#:200; Line(s) 2687,2688
Seq#:201; Line(s) 2689,2690,2691,2692,2693,2694,2695,2696,2697,2698,2699
Seq#:201; Line(s) 2700,2701
Seq#:202; Line(s) 2702,2703,2704,2705,2706,2707,2708,2709,2710,2711,2712
Seq#:202; Line(s) 2713,2714
Seq#:202; Line(s) 2715,2716,2717,2718,2719,2720,2721,2722,2723,2724,2725
Seq#:203; Line(s) 2726,2727
Seq#:204; Line(s) 2728,2729,2730,2731,2732,2733,2734,2735,2736,2737,2738
Seq#:204; Line(s) 2739,2740
Seq#:205; Line(s) 2741,2742,2743,2744,2745,2746,2747,2748,2749,2750,2751
Seq#:205; Line(s) 2752,2753
Seq#:206; Line(s) 2754,2755,2756,2757,2758,2759,2760,2761,2762,2763,2764
Seq#:206; Line(s) 2765,2766
Seq#:207; Line(s) 2767,2768,2769,2770,2771,2772,2773,2774,2775,2776,2777
Seq#:207; Line(s) 2778,2779
Seq#:208; Line(s) 2780,2781,2782,2783,2784,2785,2786,2787,2788,2789,2740
Seq#:208; Line(s) 2791,2792
Seq#:209; Line(s) 2793,2794,2795,2796,2797,2798,2799,2800,2801,2802,2803
Seq#:209; Line(s) 2804,2805
Seq#:210; Line(s) 2806,2807,2808,2809,2810,2811,2812,2813,2814,2815,2816
Seq#:210; Line(s) 2817,2818
Seq#:211; Line(s) 2819,2820,2821,2822,2823,2824,2825,2826,2827,2828,2829
Seq#:211; Line(s) 2830,2831
Seq#:212; Line(s) 2832,2833,2834,2835,2836,2837,2838,2839,2840,2841,2842
Seq#:212; Line(s) 2843,2844
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 01/28/2003
PATENT APPLICATION: US/09/676,475A   TIME: 11:18:53

Input Set : **A:\LJ4377.app**
Output Set: **N:\CRF4\01282003\I676475A.raw**

```
Seq#:113; Line(s) 2841,2846,2847,2848,2849,2850,2851,2852,2853,2854,2855
Seq#:113; Line(s) 2856,2857
Seq#:114; Line(s) 2858,2859,2860,2861,2862,2863,2864,2865,2866,2867,2868
Seq#:114; Line(s) 2869,2870
Seq#:115; Line(s) 2871,2872,2873,2874,2875,2876,2877,2878,2879,2880,2881
Seq#:115; Line(s) 2882,2883
Seq#:116; Line(s) 2884,2885,2886,2887,2888,2889,2890,2891,2892,2893,2894
Seq#:116; Line(s) 2895,2896
Seq#:117; Line(s) 2897,2898,2899,2900,2901,2902,2903,2904,2905,2906,2907
Seq#:117; Line(s) 2908,2909
Seq#:118; Line(s) 2910,2911,2912,2913,2914,2915,2916,2917,2918,2919,2920
Seq#:118; Line(s) 2921,2922
Seq#:119; Line(s) 2923,2924,2925,2926,2927,2928,2929,2930,2931,2932,2933
Seq#:119; Line(s) 2934,2935
Seq#:120; Line(s) 2936,2937,2938,2939,2940,2941,2942,2943,2944,2945,2946
Seq#:120; Line(s) 2947,2948
Seq#:121; Line(s) 2949,2950,2951,2952,2953,2954,2955,2956,2957,2958,2959
Seq#:121; Line(s) 2960,2961
Seq#:122; Line(s) 2962,2963,2964,2965,2966,2967,2968,2969,2970,2971,2972
Seq#:122; Line(s) 2973,2974
Seq#:123; Line(s) 2975,2976,2977,2978,2979,2980,2981,2982,2983,2984,2985
Seq#:123; Line(s) 2986,2987
Seq#:124; Line(s) 2988,2989,2990,2991,2992,2993,2994,2995,2996,2997,2998
Seq#:124; Line(s) 2999,3000
Seq#:125; Line(s) 3001,3002,3003,3004,3005,3006,3007,3008,3009,3010,3011
Seq#:125; Line(s) 3012,3013
Seq#:126; Line(s) 3014,3015,3016,3017,3018,3019,3020,3021,3022,3023,3024
Seq#:126; Line(s) 3025,3026
Seq#:127; Line(s) 3027,3028,3029,3030,3031,3032,3033,3034,3035,3036,3037
Seq#:127; Line(s) 3038,3039
Seq#:128; Line(s) 3040,3041,3042,3043,3044,3045,3046,3047,3048,3049,3050
Seq#:128; Line(s) 3051,3052
Seq#:129; Line(s) 3053,3054,3055,3056,3057,3058,3059,3060,3061,3062,3063
Seq#:129; Line(s) 3064,3065
Seq#:130; Line(s) 3066,3067,3068,3069,3070,3071,3072,3073,3074,3075,3076
Seq#:130; Line(s) 3077,3078
Seq#:131; Line(s) 3079,3080,3081,3082,3083,3084,3085,3086,3087,3088,3089
Seq#:131; Line(s) 3090,3091
Seq#:132; Line(s) 3092,3093,3094,3095,3096,3097,3098,3099,3100,3101,3102
Seq#:132; Line(s) 3103,3104
Seq#:133; Line(s) 3105,3106,3107,3108,3109,3110,3111,3112,3113,3114,3115
Seq#:133; Line(s) 3116,3117
Seq#:134; Line(s) 3118,3119,3120,3121,3122,3123,3124,3125,3126,3127,3128
Seq#:134; Line(s) 3129,3130
Seq#:135; Line(s) 3131,3132,3133,3134,3135,3136,3137,3138,3139,3140,3141
Seq#:135; Line(s) 3142,3143
Seq#:136; Line(s) 3144,3145,3146,3147,3148,3149,3150,3151,3152,3153,3154
Seq#:136; Line(s) 3155,3156
Seq#:137; Line(s) 3157,3158,3159,3160,3161,3162,3163,3164,3165,3166,3167
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 01/28/2003
PATENT APPLICATION: US/09/676,475A   TIME: 11:18:53

Input Set : A:\LJ4377.app
Output Set: N:\CRF4\01282003\I676475A.raw

Seq#:237; Line(s) 3168,3169
Seq#:238; Line(s) 3170,3171,3172,3173,3174,3175,3176,3177,3178,3179,3180
Seq#:238; Line(s) 3181,3182
Seq#:239; Line(s) 3183,3184,3185,3186,3187,3188,3189,3190,3191,3192,3193
Seq#:239; Line(s) 3194,3195
Seq#:240; Line(s) 3196,3197,3198,3199,3200,3201,3202,3203,3204,3205,3206
Seq#:240; Line(s) 3207,3208
Seq#:241; Line(s) 3209,3210,3211,3212,3213,3214,3215,3216,3217,3218,3219
Seq#:241; Line(s) 3220,3221
Seq#:242; Line(s) 3222,3223,3224,3225,3226,3227,3228,3229,3230,3231,3232
Seq#:242; Line(s) 3233,3234
Seq#:243; Line(s) 3235,3236,3237,3238,3239,3240,3241,3242,3243,3244,3245
Seq#:243; Line(s) 3246,3247
Seq#:244; Line(s) 3248,3249,3250,3251,3252,3253,3254,3255,3256,3257,3258
Seq#:244; Line(s) 3259,3260
Seq#:245; Line(s) 3261,3262,3263,3264,3265,3266,3267,3268,3269,3270,3271
Seq#:245; Line(s) 3272,3273
Seq#:246; Line(s) 3274,3275,3276,3277,3278,3279,3280,3281,3282,3283,3284
Seq#:246; Line(s) 3285,3286
Seq#:247; Line(s) 3287,3288,3289,3290,3291,3292,3293,3294,3295,3296,3297
Seq#:247; Line(s) 3298,3299
Seq#:248; Line(s) 3300,3301,3302,3303,3304,3305,3306,3307,3308,3309,3310
Seq#:248; Line(s) 3311,3312
Seq#:249; Line(s) 3313,3314,3315,3316,3317,3318,3319,3320,3321,3322,3323
Seq#:249; Line(s) 3324,3325
Seq#:250; Line(s) 3326,3327,3328,3329,3330,3331,3332,3333,3334,3335,3336
Seq#:250; Line(s) 3337,3338
Seq#:251; Line(s) 3339,3340,3341,3342,3343,3344,3345,3346,3347,3348,3349
Seq#:251; Line(s) 3350,3351
Seq#:252; Line(s) 3352,3353,3354,3355,3356,3357,3358,3359,3360,3361,3362
Seq#:252; Line(s) 3363,3364
Seq#:253; Line(s) 3365,3366,3367,3368,3369,3370,3371,3372,3373,3374,3375
Seq#:253; Line(s) 3376,3377
Seq#:254; Line(s) 3378,3379,3380,3381,3382,3383,3384,3385,3386,3387,3388
Seq#:254; Line(s) 3389,3390
Seq#:255; Line(s) 3391,3392,3393,3394,3395,3396,3397,3398,3399,3400,3401
Seq#:255; Line(s) 3402,3403
Seq#:256; Line(s) 3404,3405,3406,3407,3408,3409,3410,3411,3412,3413,3414
Seq#:256; Line(s) 3415,3416
Seq#:257; Line(s) 3417,3418,3419,3420,3421,3422,3423,3424,3425,3426,3427
Seq#:257; Line(s) 3428,3429
Seq#:258; Line(s) 3430,3431,3432,3433,3434,3435,3436,3437,3438,3439,3440
Seq#:258; Line(s) 3441,3442
Seq#:259; Line(s) 3443,3444,3445,3446,3447,3448,3449,3450,3451,3452,3453
Seq#:259; Line(s) 3454,3455
Seq#:260; Line(s) 3456,3457,3458,3459,3460,3461,3462,3463,3464,3465,3466
Seq#:260; Line(s) 3467,3468
Seq#:261; Line(s) 3469,3470,3471,3472,3473,3474,3475,3476,3477,3478,3479
Seq#:261; Line(s) 3480,3481

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 01/28/2003
PATENT APPLICATION: US/09/676,475A   TIME: 11:18:53

Input Set : A:\LJ4377.app
Output Set: N:\CRF4\01282003\I676475A.raw

```
Seq#:262; Line(s) 3482,3483,2484,3485,3486,3487,3488,3489,3490,3491,3492
Seq#:262; Line(s) 3493,3494
Seq#:263; Line(s) 3495,3496,3497,3498,3499,3500,3501,3502,3503,3504,3505
Seq#:263; Line(s) 3506,3507
Seq#:264; Line(s) 3508,3509,3510,3511,3512,3513,3514,3515,3516,3517,3518
Seq#:264; Line(s) 3519,3520
Seq#:265; Line(s) 3521,3522,3523,3524,3525,3526,3527,3528,3529,3530,3531
Seq#:265; Line(s) 3532,3533
Seq#:266; Line(s) 3534,3535,3536,3537,3538,3539,3540,3541,3542,3543,3544
Seq#:266; Line(s) 3545,3546
Seq#:267; Line(s) 3547,3548,3549,3550,3551,3552,3553,3554,3555,3556,3557
Seq#:267; Line(s) 3558,3559
Seq#:268; Line(s) 3560,3561,3562,3563,3564,3565,3566,3567,3568,3569,3570
Seq#:268; Line(s) 3571,3572
Seq#:269; Line(s) 3573,3574,3575,3576,3577,3578,3579,3580,3581,3582,3583
Seq#:269; Line(s) 3584,3585
Seq#:270; Line(s) 3586,3587,3588,3589,3590,3591,3592,3593,3594,3595,3596
Seq#:270; Line(s) 3597,3598
Seq#:271; Line(s) 3599,3600,3601,3602,3603,3604,3605,3606,3607,3608,3609
Seq#:271; Line(s) 3610,3611
Seq#:272; Line(s) 3612,3613,3614,3615,3616,3617,3618,3619,3620,3621,3622
Seq#:272; Line(s) 3623,3624
Seq#:273; Line(s) 3625,3626,3627,3628,3629,3630,3631,3632,3633,3634,3635
Seq#:273; Line(s) 3636,3637
Seq#:274; Line(s) 3638,3639,3640,3641,3642,3643,3644,3645,3646,3647,3648
Seq#:274; Line(s) 3649,3650
Seq#:275; Line(s) 3651,3652,3653,3654,3655,3656,3657,3658,3659,3660,3661
Seq#:275; Line(s) 3662,3663
Seq#:276; Line(s) 3664,3665,3666,3667,3668,3669,3670,3671,3672,3673,3674
Seq#:276; Line(s) 3675,3676
Seq#:277; Line(s) 3677,3678,3679,3680,3681,3682,3683,3684,3685,3686,3687
Seq#:277; Line(s) 3688,3689
Seq#:278; Line(s) 3690,3691,3692,3693,3694,3695,3696,3697,3698,3699,3700
Seq#:278; Line(s) 3701,3702
Seq#:279; Line(s) 3703,3704,3705,3706,3707,3708,3709,3710,3711,3712,3713
Seq#:279; Line(s) 3714,3715
Seq#:280; Line(s) 3716,3717,3718,3719,3720,3721,3722,3723,3724,3725,3726
Seq#:280; Line(s) 3727,3728
Seq#:281; Line(s) 3729,3730,3731,3732,3733,3734,3735,3736,3737,3738,3739
Seq#:281; Line(s) 3740,3741
Seq#:282; Line(s) 3742,3743,3744,3745,3746,3747,3748,3749,3750,3751,3752
Seq#:282; Line(s) 3753,3754
Seq#:283; Line(s) 3755,3756,3757,3758,3759,3760,3761,3762,3763,3764,3765
Seq#:283; Line(s) 3766,3767
Seq#:284; Line(s) 3768,3769,3770,3771,3772,3773,3774,3775,3776,3777,3778
Seq#:284; Line(s) 3779,3780
Seq#:285; Line(s) 3781,3782,3783,3784,3785,3786,3787,3788,3789,3790,3791
Seq#:285; Line(s) 3792,3793
Seq#:286; Line(s) 3794,3795,3796,3797,3798,3799,3800,3801,3802,3803,3804
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 01/??/2003
PATENT APPLICATION: US/09/676,475A   TIME: 11:18:53

Input Set : A:\LJ4377.app
Output Set : N:\CRF4\01282003\I676475A.raw

Seq#:296; Line(s) 3804,3806
Seq#:297; Line(s) 3807,3808,3809,3810,3811,3812,3813,3814,3815,3816,3817
Seq#:297; Line(s) 3818,3819
Seq#:298; Line(s) 3820,3821,3822,3823,3824,3825,3826,3827,3828,3829,3830
Seq#:298; Line(s) 3831,3832
Seq#:299; Line(s) 3833,3834,3835,3836,3837,3838,3839,3840,3841,3842,3843
Seq#:299; Line(s) 3844,3845
Seq#:290; Line(s) 3846,3847,3848,3849,3850,3851,3852,3853,3854,3855,3856
Seq#:290; Line(s) 3857,3858
Seq#:291; Line(s) 3859,3860,3861,3862,3863,3864,3865,3866,3867,3868,3869
Seq#:291; Line(s) 3870,3871
Seq#:292; Line(s) 3872,3873,3874,3875,3876,3877,3878,3879,3880,3881,3882
Seq#:292; Line(s) 3883,3884
Seq#:293; Line(s) 3885,3886,3887,3888,3889,3890,3891,3892,3893,3894,3895
Seq#:293; Line(s) 3896,3897
Seq#:294; Line(s) 3898,3899,3900,3901,3902,3903,3904,3905,3906,3907,3908
Seq#:294; Line(s) 3909,3910
Seq#:295; Line(s) 3911,3912,3913,3914,3915,3916,3917,3918,3919,3920,3921
Seq#:295; Line(s) 3922,3923
Seq#:296; Line(s) 3924,3925,3926,3927,3928,3929,3930,3931,3932,3933,3934
Seq#:296; Line(s) 3935,3936
Seq#:297; Line(s) 3937,3938,3939,3940,3941,3942,3943,3944,3945,3946,3947
Seq#:297; Line(s) 3948,3949
Seq#:298; Line(s) 3950,3951,3952,3953,3954,3955,3956,3957,3958,3959,3960
Seq#:298; Line(s) 3961,3962
Seq#:299; Line(s) 3963,3964,3965,3966,3967,3968,3969,3970,3971,3972,3973
Seq#:299; Line(s) 3974,3975
Seq#:300; Line(s) 3976,3977,3978,3979,3980,3981,3982,3983,3984,3985,3986
Seq#:300; Line(s) 3987,3988
Seq#:301; Line(s) 3989,3990,3991,3992,3993,3994,3995,3996,3997,3998,3999
Seq#:301; Line(s) 4000,4001
Seq#:302; Line(s) 4002,4003,4004,4005,4006,4007,4008,4009,4010,4011,4012
Seq#:302; Line(s) 4013,4014
Seq#:303; Line(s) 4015,4016,4017,4018,4019,4020,4021,4022,4023,4024,4025
Seq#:303; Line(s) 4026,4027
Seq#:304; Line(s) 4028,4029,4030,4031,4032,4033,4034,4035,4036,4037,4038
Seq#:304; Line(s) 4039,4040
Seq#:305; Line(s) 4041,4042,4043,4044,4045,4046,4047,4048,4049,4050,4051
Seq#:305; Line(s) 4052,4053
Seq#:306; Line(s) 4054,4055,4056,4057,4058,4059,4060,4061,4062,4063,4064
Seq#:306; Line(s) 4065,4066
Seq#:307; Line(s) 4067,4068,4069,4070,4071,4072,4073,4074,4075,4076,4077
Seq#:307; Line(s) 4078,4079
Seq#:308; Line(s) 4080,4081,4082,4083,4084,4085,4086,4087,4088,4089,4090
Seq#:308; Line(s) 4091,4092
Seq#:309; Line(s) 4093,4094,4095,4096,4097,4098,4099,4100,4101,4102,4103
Seq#:309; Line(s) 4104,4105
Seq#:310; Line(s) 4106,4107,4108,4109,4110,4111,4112,4113,4114,4115,4116
Seq#:310; Line(s) 4117,4118

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 01/28/2003
PATENT APPLICATION: US/09/676,475A   TIME: 11:18:53

Input Set : A:\LJ4377.app
Output Set : N:\CRF4\01282003\I676475A.raw

Seq#:311; Line(s) 4119,4120,4121,4122,4123,4124,4125,4126,4127,4128,4129
Seq#:311; Line(s) 4130,4131
Seq#:312; Line(s) 4132,4133,4134,4135,4136,4137,4138,4139,4140,4141,4142
Seq#:312; Line(s) 4143,4144
Seq#:313; Line(s) 4145,4146,4147,4148,4149,4150,4151,4152,4153,4154,4155
Seq#:313; Line(s) 4156,4157
Seq#:314; Line(s) 4158,4159,4160,4161,4162,4163,4164,4165,4166,4167,4168
Seq#:314; Line(s) 4169,4170
Seq#:315; Line(s) 4171,4172,4173,4174,4175,4176,4177,4178,4179,4180,4181
Seq#:316; Line(s) 4182,4183
Seq#:316; Line(s) 4184,4185,4186,4187,4188,4189,4190,4191,4192,4193,4194
Seq#:316; Line(s) 4195,4196
Seq#:317; Line(s) 4197,4198,4199,4200,4201,4202,4203,4204,4205,4206,4207
Seq#:317; Line(s) 4208,4209
Seq#:318; Line(s) 4210,4211,4212,4213,4214,4215,4216,4217,4218,4219,4220
Seq#:318; Line(s) 4221,4222
Seq#:319; Line(s) 4223,4224,4225,4226,4227,4228,4229,4230,4231,4232,4233
Seq#:319; Line(s) 4234,4235
Seq#:320; Line(s) 4236,4237,4238,4239,4240,4241,4242,4243,4244,4245,4246
Seq#:320; Line(s) 4247,4248
Seq#:321; Line(s) 4249,4250,4251,4252,4253,4254,4255,4256,4257,4258,4259
Seq#:321; Line(s) 4260,4261
Seq#:322; Line(s) 4262,4263,4264,4265,4266,4267,4268,4269,4270,4271,4272
Seq#:322; Line(s) 4273,4274
Seq#:323; Line(s) 4275,4276,4277,4278,4279,4280,4281,4282,4283,4284,4285
Seq#:323; Line(s) 4286,4287
Seq#:324; Line(s) 4288,4289,4290,4291,4292,4293,4294,4295,4296,4297,4298
Seq#:324; Line(s) 4299,4300
Seq#:325; Line(s) 4301,4302,4303,4304,4305,4306,4307,4308,4309,4310,4311
Seq#:325; Line(s) 4312,4313
Seq#:326; Line(s) 4314,4315,4316,4317,4318,4319,4320,4321,4322,4323,4324
Seq#:326; Line(s) 4325,4326
Seq#:327; Line(s) 4327,4328,4329,4330,4331,4332,4333,4334,4335,4336,4337
Seq#:327; Line(s) 4338,4339
Seq#:328; Line(s) 4340,4341,4342,4343,4344,4345,4346,4347,4348,4349,4350
Seq#:328; Line(s) 4351,4352
Seq#:329; Line(s) 4353,4354,4355,4356,4357,4358,4359,4360,4361,4362,4363
Seq#:329; Line(s) 4364,4365
Seq#:330; Line(s) 4366,4367,4368,4369,4370,4371,4372,4373,4374,4375,4376
Seq#:330; Line(s) 4377,4378
Seq#:331; Line(s) 4379,4380,4381,4382,4383,4384,4385,4386,4387,4388,4389
Seq#:331; Line(s) 4390,4391
Seq#:332; Line(s) 4392,4393,4394,4395,4396,4397,4398,4399,4400,4401,4402
Seq#:332; Line(s) 4403,4404,4405,4406,4407,4408,4409
Seq#:333; Line(s) 4410,4411,4412,4413,4414,4415,4416,4417,4418,4419,4420
Seq#:333; Line(s) 4421,4422
Seq#:334; Line(s) 4423,4424,4425,4426,4427,4428,4429,4430,4431,4432,4433
Seq#:334; Line(s) 4434,4435
Seq#:335; Line(s) 4436,4437,4438,4439,4440,4441,4442,4443,4444,4445,4446

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 01/28/2003
PATENT APPLICATION: US/09/676,475A   TIME: 11:18:53

Input Set : A:\LJ4377.app
Output Set: N:\CRF4\01282003\I676475A.raw

Seq#:335; Line(s) 4447,4448
Seq#:336; Line(s) 4449,4450,4451,4452,4453,4454,4455,4456,4457,4458,4459
Seq#:336; Line(s) 4460,4461
Seq#:337; Line(s) 4462,4463,4464,4465,4466,4467,4468,4469,4470,4471,4472
Seq#:337; Line(s) 4473,4474
Seq#:338; Line(s) 4475,4476,4477,4478,4479,4480,4481,4482,4483,4484,4485
Seq#:338; Line(s) 4486,4487
Seq#:339; Line(s) 4488,4489,4490,4491,4492,4493,4494,4495,4496,4497,4498
Seq#:339; Line(s) 4499,4500
Seq#:340; Line(s) 4501,4502,4503,4504,4505,4506,4507,4508,4509,4510,4511
Seq#:340; Line(s) 4512,4513
Seq#:341; Line(s) 4514,4515,4516,4517,4518,4519,4520,4521,4522,4523,4524
Seq#:341; Line(s) 4525,4526
Seq#:342; Line(s) 4527,4528,4529,4530,4531,4532,4533,4534,4535,4536,4537
Seq#:342; Line(s) 4538,4539
Seq#:343; Line(s) 4540,4541,4542,4543,4544,4545,4546,4547,4548,4549,4550
Seq#:343; Line(s) 4551,4552
Seq#:344; Line(s) 4553,4554,4555,4556,4557,4558,4559,4560,4561,4562,4563
Seq#:344; Line(s) 4564,4565
Seq#:345; Line(s) 4566,4567,4568,4569,4570,4571,4572,4573,4574,4575,4576
Seq#:345; Line(s) 4577,4578,4579,4580,4581,4582,4583,4584,4585,4586,4587
Seq#:345; Line(s) 4588
Seq#:346; Line(s) 4589,4590,4591,4592,4593,4594,4595,4596,4597,4598,4599
Seq#:346; Line(s) 4600,4601
Seq#:347; Line(s) 4602,4603,4604,4605,4606,4607,4608,4609,4610,4611,4612
Seq#:347; Line(s) 4613,4614
Seq#:348; Line(s) 4615,4616,4617,4618,4619,4620,4621,4622,4623,4624,4625
Seq#:348; Line(s) 4626,4627
Seq#:349; Line(s) 4628,4629,4630,4631,4632,4633,4634,4635,4636,4637,4638
Seq#:349; Line(s) 4639,4640
Seq#:350; Line(s) 4641,4642,4643,4644,4645,4646,4647,4648,4649,4650,4651
Seq#:350; Line(s) 4652,4653
Seq#:351; Line(s) 4654,4655,4656,4657,4658,4659,4660,4661,4662,4663,4664
Seq#:351; Line(s) 4665,4666
Seq#:352; Line(s) 4667,4668,4669,4670,4671,4672,4673,4674,4675,4676,4677
Seq#:352; Line(s) 4678,4679
Seq#:353; Line(s) 4680,4681,4682,4683,4684,4685,4686,4687,4688,4689,4690
Seq#:353; Line(s) 4691,4692
Seq#:354; Line(s) 4693,4694,4695,4696,4697,4698,4699,4700,4701,4702,4703
Seq#:354; Line(s) 4704,4705
Seq#:355; Line(s) 4706,4707,4708,4709,4710,4711,4712,4713,4714,4715,4716
Seq#:355; Line(s) 4717,4718
Seq#:356; Line(s) 4719,4720,4721,4722,4723,4724,4725,4726,4727,4728,4729
Seq#:356; Line(s) 4730,4731
Seq#:357; Line(s) 4732,4733,4734,4735,4736,4737,4738,4739,4740,4741,4742
Seq#:357; Line(s) 4743,4744
Seq#:358; Line(s) 4745,4746,4747,4748,4749,4750,4751,4752,4753,4754,4755
Seq#:358; Line(s) 4756,4757
Seq#:359; Line(s) 4758,4759,4760,4761,4762,4763,4764,4765,4766,4767,4768

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 01/28/2003
PATENT APPLICATION: **US/09/676,475A**   TIME: 11:18:53

Input Set : **A:\LJ4377.app**
Output Set : **N:\CRF4\01282003\I676475A.raw**

```
Seq#:359; Line(s) 4765,4766
Seq#:360; Line(s) 4771,4772,4773,4774,4775,4776,4777,4778,4779,4780,4781
Seq#:360; Line(s) 4782,4783
Seq#:361; Line(s) 4784,4785,4786,4787,4788,4789,4790,4791,4792,4793,4794
Seq#:361; Line(s) 4795,4796
Seq#:362; Line(s) 4797,4798,4799,4800,4801,4802,4803,4804,4805,4806,4807
Seq#:362; Line(s) 4808,4809
Seq#:363; Line(s) 4810,4811,4812,4813,4814,4815,4816,4817,4818,4819,4820
Seq#:363; Line(s) 4821,4822
Seq#:364; Line(s) 4823,4824,4825,4826,4827,4828,4829,4830,4831,4832,4833
Seq#:364; Line(s) 4834,4835
Seq#:365; Line(s) 4836,4837,4838,4839,4840,4841,4842,4843,4844,4845,4846
Seq#:365; Line(s) 4847,4848
Seq#:366; Line(s) 4849,4850,4851,4852,4853,4854,4855,4856,4857,4858,4859
Seq#:366; Line(s) 4860,4861,4862,4863,4864,4865,4866
Seq#:367; Line(s) 4867,4868,4869,4870,4871,4872,4873,4874,4875,4876,4877
Seq#:367; Line(s) 4878,4879,4880,4881,4882,4883,4884
Seq#:368; Line(s) 4885,4886,4887,4888,4889,4890,4891,4892,4893,4894,4895
Seq#:368; Line(s) 4896,4897
Seq#:369; Line(s) 4898,4899,4900,4901,4902,4903,4904,4905,4906,4907,4908
Seq#:369; Line(s) 4909,4910
Seq#:370; Line(s) 4911,4912,4913,4914,4915,4916,4917,4918,4919,4920,4921
Seq#:370; Line(s) 4922,4923
Seq#:371; Line(s) 4924,4925,4926,4927,4928,4929,4930,4931,4932,4933,4934
Seq#:371; Line(s) 4935,4936
Seq#:372; Line(s) 4937,4938,4939,4940,4941,4942,4943,4944,4945,4946,4947
Seq#:372; Line(s) 4948,4949,4950,4951,4952,4953
Seq#:373; Line(s) 4954,4955,4956,4957,4958,4959,4960,4961,4962,4963,4964
Seq#:373; Line(s) 4965,4966
Seq#:374; Line(s) 4967,4968,4969,4970,4971,4972,4973,4974,4975,4976,4977
Seq#:374; Line(s) 4978,4979
Seq#:375; Line(s) 4980,4981,4982,4983,4984,4985,4986,4987,4988,4989,4990
Seq#:375; Line(s) 4991,4992
Seq#:376; Line(s) 4993,4994,4995,4996,4997,4998,4999,5000,5001,5002,5003
Seq#:376; Line(s) 5004,5005
Seq#:377; Line(s) 5006,5007,5008,5009,5010,5011,5012,5013,5014,5015,5016
Seq#:377; Line(s) 5017,5018
Seq#:378; Line(s) 5019,5020,5021,5022,5023,5024,5025,5026,5027,5028,5029
Seq#:378; Line(s) 5030,5031
Seq#:379; Line(s) 5032,5033,5034,5035,5036,5037,5038,5039,5040,5041,5042
Seq#:379; Line(s) 5043,5044
Seq#:380; Line(s) 5045,5046,5047,5048,5049,5050,5051,5052,5053,5054,5055
Seq#:380; Line(s) 5056,5057
Seq#:381; Line(s) 5058,5059,5060,5061,5062,5063,5064,5065,5066,5067,5068
Seq#:381; Line(s) 5069,5070
Seq#:382; Line(s) 5071,5072,5073,5074,5075,5076,5077,5078,5079,5080,5081
Seq#:382; Line(s) 5082,5083
Seq#:383; Line(s) 5084,5085,5086,5087,5088,5089,5090,5091,5092,5093,5094
Seq#:383; Line(s) 5095,5096
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 01/28/2003
PATENT APPLICATION: US/09/676,475A   TIME: 11:18:53

Input Set : A:\LJ4377.app
Output Set: N:\CRF4\01282003\I676475A.raw

```
Seq#:3.4; Line(s) 5.98,5.99,5099,51..,5101,510.,51..,5104,51..,5105,51..
Seq#:3.4; Line(s) 51..,5164
Seq#:3.5; Line(s) 51..,51..,511.,511.,5114,5115,511.,5117,511.,5119,51..
Seq#:3.6; Line(s) 51.1,51..
Seq#:3.6; Line(s) 51..,5124,51..,51..,5127,512.,51..,51..,51.1,513.,513.
Seq#:3.6; Line(s) 51.4,5135
Seq#:3.7; Line(s) 51..,51.7,51..,51..,5140,5141,514.,51..,5114,5141,513.
Seq#:3.7; Line(s) 5142,514.
Seq#:3.8; Line(s) 51.4,51..,515.,51..,51.3,5154,51..,51..,515.,5156,51..
Seq#:3.8; Line(s) 51.0,5161
Seq#:3.9; Line(s) 51..,51..,5163,51..,5166,5167,51..,51..,51..,51..1,51..
Seq#:3.9; Line(s) 517.,5174
Seq#:3..; Line(s) 51.5,517.,51..,51..,5179,51..,5181,51..,51..,51.4,51.5
Seq#:3..; Line(s) 51.6,5187
Seq#:3.1; Line(s) 51.8,51.9,51.0,51.1,51.2,51..,51.4,51.,51.,51.,51.4
Seq#:3.1; Line(s) 51.9,5.00
Seq#:3.2; Line(s) 5.01,5.0.,5.0.,5.04,5.0.,52.6,52.7,52.8,52.9,5.10,5.11
Seq#:3.2; Line(s) 5.1.,5.1.
Seq#:3.3; Line(s) 5.1.,5.15,5116,5117,5.1.,52.9,52..,52..,52..,52..,52.4
Seq#:3.3; Line(s) 5..5,5..6
Seq#:3.4; Line(s) 5..7,5..8,5129,5130,5131,52.2,52..,5..4,5.15,5.16,5.17
Seq#:3.4; Line(s) 51..,5...
Seq#:3.5; Line(s) 5.40,5.41,524.,52.5,52.4,52.5,5247,5248,5249,5250
Seq#:3.5; Line(s) 5.21,5.22
Seq#:3.6; Line(s) 5.5.,5.54,5255,52.6,5.57,52..,5259,5260,5261,5262,5263
Seq#:3.6; Line(s) 5.64,5.65
Seq#:3.7; Line(s) 5.66,5267,5268,52.9,5270,5271,5.72,5.7.,5274,5275,52.6
Seq#:3.7; Line(s) 52.7,5.7.
Seq#:3.8; Line(s) 5.79,5.80,52.1,5.82,528.,52.4,52.5,5286,5287,5...,5...
Seq#:3.8; Line(s) 51..,5...
Seq#:3.9; Line(s) 5..2,5.93,5294,52..,5.96,5.97,52..,52.9,5..2,5.01,5...
Seq#:3.9; Line(s) 5..3,5.04
Seq#:400; Line(s) 5.05,5.06,5307,5.0.,5.09,5.1.,5.11,5.1.,5.1.,5.14,5.1.
Seq#:40.; Line(s) 5.16,5.17
Seq#:401; Line(s) 5.1.,5.1.,5.1.,5.21,5.2.,5.2.,5.2.,5...,5...,5.27,5.28
Seq#:40.; Line(s) 51.4,5...
Seq#:40.; Line(s) 5.31,5...,5...,5.34,5.31,5.36,5.37,53.8,5...,5.4.,5.41
Seq#:40.; Line(s) 534.,5.4.
Seq#:401; Line(s) 5.44,5.41,5.46,5.47,5.4.,5.4.,5.5.,5.51,5...,5...,5.54
Seq#:40.; Line(s) 5...,5.5.
Seq#:40.; Line(s) 5...,5...,5.5.,5.60,5.61,5.6.,5...,5.64,5.6.,5.66,5.67
Seq#:40.; Line(s) 5.68,5.69,5370,5.71,5.72,5.73,5.74
Seq#:40.; Line(s) 5...,5.7.,5...,5.76,5.74,5.80,5.81,5.82,5.83,5.84,5...
Seq#:40.; Line(s) 5.86,5.87
Seq#:40.; Line(s) 5.88,5.89,5390,5.91,5.9.,5.9.,5.94,5.95,5.96,5.97,5398
Seq#:40.; Line(s) 5399,5400
Seq#:407; Line(s) 5401,540.,5405,5404,5405,540.,5407,5408,5409,5410,5411
Seq#:40.; Line(s) 5412,5413
Seq#:408; Line(s) 5414,541.,5416,5417,5418,541.,542.,5421,5422,5423,5424
```

RAW SEQUENCE LISTING ERROR SUMMARY　　　DATE: 01/28/2003
PATENT APPLICATION:　US/09/676,475A　　　TIME: 11:18:53

Input Set : A:\LJ4377.app
Output Set: N:\CRF4\01282003\I676475A.raw

```
Seq#:408; Line(s) 5425,5426
Seq#:409; Line(s) 5417,5418,5429,5430,5431,5432,5433,5434,5435,5436,5437
Seq#:409; Line(s) 5438,5439
Seq#:410; Line(s) 5440,5441,5442,5443,5444,5445,5446,5447,5448,5449,5450
Seq#:410; Line(s) 5451,5452
Seq#:411; Line(s) 5453,5454,5455,5456,5457,5458,5459,5460,5461,5462,5463
Seq#:411; Line(s) 5464,5465
Seq#:412; Line(s) 5466,5467,5468,5469,5470,5471,5472,5473,5474,5475,5476
Seq#:412; Line(s) 5477,5478
Seq#:413; Line(s) 5479,5480,5481,5482,5483,5484,5485,5486,5487,5488,5489
Seq#:413; Line(s) 5490,5491
Seq#:414; Line(s) 5492,5493,5494,5495,5496,5497,5498,5499,5500,5501,5502
Seq#:414; Line(s) 5503,5504
Seq#:415; Line(s) 5505,5506,5507,5508,5509,5510,5511,5512,5513,5514,5515
Seq#:415; Line(s) 5516,5517
Seq#:416; Line(s) 5518,5519,5520,5521,5522,5523,5524,5525,5526,5527,5528
Seq#:416; Line(s) 5529,5530
Seq#:417; Line(s) 5531,5532,5533,5534,5535,5536,5537,5538,5539,5540,5541
Seq#:417; Line(s) 5542,5543
Seq#:418; Line(s) 5544,5545,5546,5547,5548,5549,5550,5551,5552,5553,5554
Seq#:418; Line(s) 5555,5556
Seq#:419; Line(s) 5557,5558,5559,5560,5561,5562,5563,5564,5565,5566,5567
Seq#:419; Line(s) 5568,5569
Seq#:420; Line(s) 5570,5571,5572,5573,5574,5575,5576,5577,5578,5579,5580
Seq#:420; Line(s) 5581,5582
Seq#:421; Line(s) 5583,5584,5585,5586,5587,5588,5589,5590,5591,5592,5593
Seq#:421; Line(s) 5594,5595
Seq#:422; Line(s) 5596,5597,5598,5599,5600,5601,5602,5603,5604,5605,5606
Seq#:422; Line(s) 5607,5608
Seq#:423; Line(s) 5609,5610,5611,5612,5613,5614,5615,5616,5617,5618,5619
Seq#:423; Line(s) 5620,5621
Seq#:424; Line(s) 5622,5623,5624,5625,5626,5627,5628,5629,5630,5631,5632
Seq#:424; Line(s) 5633,5634
Seq#:425; Line(s) 5635,5636,5637,5638,5639,5640,5641,5642,5643,5644,5645
Seq#:425; Line(s) 5646,5647
Seq#:426; Line(s) 5648,5649,5650,5651,5652,5653,5654,5655,5656,5657,5658
Seq#:426; Line(s) 5659,5660
Seq#:427; Line(s) 5661,5662,5663,5664,5665,5666,5667,5668,5669,5670,5671
Seq#:427; Line(s) 5672,5673
Seq#:428; Line(s) 5673,5674,5675,5676,5677,5678,5679,5680,5681,5682,5683
Seq#:428; Line(s) 5684,5685
Seq#:429; Line(s) 5687,5688,5689,5690,5691,5692,5693,5694,5695,5696,5697
Seq#:429; Line(s) 5698,5699
Seq#:430; Line(s) 5700,5701,5702,5703,5704,5705,5706,5707,5708,5709,5710
Seq#:430; Line(s) 5711,5712
Seq#:431; Line(s) 5713,5714,5715,5716,5717,5718,5719,5720,5721,5722,5723
Seq#:431; Line(s) 5724,5725,5726,5727,5728,5729,5730,5731,5732,5733,5734
Seq#:431; Line(s) 5735,5736,5737,5738
Seq#:432; Line(s) 5739,5740,5741,5742,5743,5744,5745,5746,5747,5748,5749
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 01/28/2003
PATENT APPLICATION: US/09/676,475A   TIME: 11:18:53

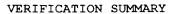Input Set : A:\LJ4377.app
Output Set: N:\CRF4\01282003\I676475A.raw

```
Seq#:432; Line(s) 5750,5751,5752,5753,5754,5755,5756,5757,5758,5759,5760
Seq#:432; Line(s) 5761,5762,5763,5764
Seq#:433; Line(s) 5765,5766,5767,5768,5769,5770,5771,5772,5773,5774,5775
Seq#:433; Line(s) 5776,5777,5778,5779,5780,5781,5782
Seq#:434; Line(s) 5783,5784,5785,5786,5787,5788,5789,5790,5791,5792,5793
Seq#:434; Line(s) 5794,5795,5796,5797,5798,5799,5800,5801,5802,5803,5804
Seq#:434; Line(s) 5805,5806,5807,5808
Seq#:435; Line(s) 5809,5810,5811,5812,5813,5814,5815,5816,5817,5818,5819
Seq#:435; Line(s) 5820,5821
Seq#:436; Line(s) 5822,5823,5824,5825,5826,5827,5828,5829,5830,5831,5832
Seq#:436; Line(s) 5833,5834,5835,5836,5837,5838,5839,5840,5841,5842,5843
Seq#:436; Line(s) 5844,5845,5846,5847
Seq#:437; Line(s) 5848,5849,5850,5851,5852,5853,5854,5855,5856,5857,5858
Seq#:437; Line(s) 5859,5860,5861
Seq#:438; Line(s) 5862,5863,5864,5865,5866,5867,5868,5869,5870,5871,5872
Seq#:438; Line(s) 5873,5874,5875
Seq#:439; Line(s) 5876,5877,5878,5879,5880,5881,5882,5883,5884,5885,5886
Seq#:439; Line(s) 5887,5888,5889
Seq#:440; Line(s) 5890,5891,5892,5893,5894,5895,5896,5897,5898,5899,5900
Seq#:440; Line(s) 5901,5902,5903
Seq#:441; Line(s) 5904,5905,5906,5907,5908,5909,5910,5911,5912,5913,5914
Seq#:441; Line(s) 5915,5916,5917
Seq#:442; Line(s) 5918,5919,5920,5921,5922,5923,5924,5925,5926,5927,5928
Seq#:442; Line(s) 5929,5930,5931
Seq#:443; Line(s) 5932,5933,5934,5935,5936,5937,5938,5939,5940,5941,5942
Seq#:443; Line(s) 5943,5944,5945
Seq#:444; Line(s) 5946,5947,5948,5949,5950,5951,5952,5953,5954,5955
Seq#:445; Line(s) 5956,5957,5958,5959,5960,5961,5962,5963,5964,5965,5966
Seq#:445; Line(s) 5967,5968
Seq#:446; Line(s) 5969,5970,5971,5972,5973,5974,5975,5976,5977,5978,5979
Seq#:446; Line(s) 5980
Seq#:447; Line(s) 5981,5982,5983,5984,5985,5986,5987,5988,5989,5990,5991
Seq#:447; Line(s) 5992
Seq#:448; Line(s) 5993,5994,5995,5996,5997,5998,5999,6000,6001,6002,6003
Seq#:448; Line(s) 6004,6005,6006,6007,6008,6009,6010,6011,6012,6013,6014
Seq#:448; Line(s) 6015,6016,6017,6018,6019,6020,6021,6022,6023,6024,6025
Seq#:448; Line(s) 6026,6027,6028,6029,6030,6031,6032,6033,6034,6035,6036
Seq#:448; Line(s) 6037,6038,6039,6040,6041,6042,6043,6044,6045,6046,6047
Seq#:448; Line(s) 6048,6049,6050,6051,6052,6053,6054,6055,6056,6057,6058
Seq#:448; Line(s) 6059,6060,6061,6062,6063,6064,6065,6066,6067,6068,6069
Seq#:448; Line(s) 6070,6071,6072,6073,6074,6075,6076,6077
Seq#:449; Line(s) 6078,6079,6080,6081,6082,6083,6084,6085,6086,6087,6088
Seq#:449; Line(s) 6089,6090,6091,6092,6093,6094,6095,6096,6097,6098,6099
Seq#:449; Line(s) 6100,6101,6102,6103,6104,6105,6106,6107,6108,6109,6110
Seq#:449; Line(s) 6111,6112,6113,6114,6115,6116,6117,6118,6119,6120,6121
Seq#:449; Line(s) 6122,6123,6124,6125,6126,6127,6128,6129,6130,6131,6132
Seq#:449; Line(s) 6133,6134,6135,6136,6137,6138,6139,6140,6141,6142,6143
Seq#:449; Line(s) 6144,6145,6146,6147,6148,6149,6150,6151,6152,6153,6154
Seq#:449; Line(s) 6155,6156,6157,6158,6159,6160,6161,6162
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 01/28/2003
PATENT APPLICATION: **US/09/676,475A**   TIME: 11:18:53

Input Set : **A:\LJ4377.app**
Output Set: **N:\CRF4\01282003\I676475A.raw**

```
Seq#:450; Line(s) 6163,6164,6165,6166,6167,6168,6169,6170,6171,6172,6173
Seq#:450; Line(s) 6174,6175,6176,6177,6178,6179,6180,6181,6182,6183,6184
Seq#:450; Line(s) 6185,6186,6187,6188,6189,6190,6191,6192,6193,6194,6195
Seq#:450; Line(s) 6196,6197,6198,6199,6200,6201,6202,6203,6204,6205,6206
Seq#:450; Line(s) 6207,6208,6209,6210,6211,6212,6213,6214,6215,6216,6217
Seq#:450; Line(s) 6218,6219,6220,6221,6222,6223,6224,6225,6226,6227,6228
Seq#:450; Line(s) 6229,6230,6231,6232,6233,6234,6235,6236,6237,6238,6239
Seq#:450; Line(s) 6240,6241,6242,6243,6244,6245,6246,6247
Seq#:451; Line(s) 6248,6249,6250,6251,6252,6253,6254,6255,6256,6257,6258
Seq#:451; Line(s) 6259,6260,6261,6262,6263,6264,6265,6266,6267,6268,6269
Seq#:451; Line(s) 6270,6271,6272,6273,6274,6275,6276,6277,6278,6279,6280
Seq#:451; Line(s) 6281,6282,6283,6284,6285,6286,6287,6288,6289,6290,6291
Seq#:451; Line(s) 6292,6293,6294,6295,6296,6297,6298,6299,6300,6301,6302
Seq#:451; Line(s) 6303,6304,6305,6306,6307,6308,6309,6310,6311,6312,6313
Seq#:451; Line(s) 6314,6315,6316,6317,6318,6319,6320,6321,6322,6323,6324
Seq#:451; Line(s) 6325,6326,6327,6328,6329,6330,6331,6332
Seq#:452; Line(s) 6333,6334,6335,6336,6337,6338,6339,6340,6341,6342,6343
Seq#:452; Line(s) 6344,6345,6346,6347,6348,6349,6350,6351,6352,6353,6354
Seq#:452; Line(s) 6355,6356,6357,6358,6359,6360,6361,6362,6363,6364,6365
Seq#:452; Line(s) 6366,6367,6368,6369,6370,6371,6372,6373,6374,6375,6376
Seq#:452; Line(s) 6377,6378,6379,6380,6381,6382,6383,6384,6385,6386,6387
Seq#:452; Line(s) 6388,6389,6390,6391,6392,6393,6394,6395,6396,6397,6398
Seq#:452; Line(s) 6399,6400,6401,6402,6403,6404,6405,6406,6407,6408,6409
Seq#:452; Line(s) 6410,6411,6412,6413,6414,6415,6416,6417
```

VERIFICATION SUMMARY
PATENT APPLICATION: **US/09/676,475A**

DATE: 01/28/2003
TIME: 11:18:53

Input Set : **A:\LJ4377.app**
Output Set: **N:\CRF4\01282003\I676475A.raw**

```
L:12 M:270 C: Current Application Number differs, Replaced Application Number
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:249 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:250 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:16
L:345 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
L:364 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:431 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:403 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0
L:452 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0
L:470 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
L:483 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0
L:4405 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0
L:4584 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:345 after pos.:0
L:4686 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:366 after pos.:0
L:4810 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:367 after pos.:0
L:4949 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:371 after pos.:0
L:5510 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:403 after pos.:0
L:5771 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:431 after pos.:0
L:5784 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:431 after pos.:16
L:5757 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:432 after pos.:0
L:5760 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:432 after pos.:16
L:5773 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:433 after pos.:0
L:5801 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:434 after pos.:0
L:5804 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:434 after pos.:16
L:5840 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:436 after pos.:0
L:5843 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:436 after pos.:16
```